

## Teacher Profile



1. Personal Details:
  - Name : GAVISIDDAPPA S. GOKAVI
  - Designation : PROFESSOR
  
  - Date of Birth : 26<sup>th</sup> January 1962
  - E-mail Address : [gsgokavi@hotmail.com](mailto:gsgokavi@hotmail.com)  
[gsgokavi@rediffmail.com](mailto:gsgokavi@rediffmail.com)
  
  - Permanent Address : Flat no C-9, Madhbhavi Park  
Rajendranagar, KOLHAPUR 416008
  
2. Academic Details:
  - Qualification : M. Sc., Ph. D.
  - Specialization : Physical Chemistry
  - Position : Professor
  
3. Research Specialization : Reaction Mechanisms, Catalysis,  
Membrane Separations
  
4. Teaching Experience : Total  
U.G.: -  
P.G.: 25 Years

5. Research Guidance : P.G. Programs:  
M.Sc. Projects: 10 students  
M.Phil. : 07 students  
Ph. D. : 15 students  
Ph. D. : 8 working

6. Research Publications : National : 7  
International ; 58

7. Conferences Attended : National : 6  
International ; 1  
Invited Talk : 5

8. Research Project :

Sr. No.	Title of the project	Funding Agency	Period	Grant sanctioned / Amount mobilized	Status
1	Homogeneous organic oxidations catalyzed by heteropolyoxometalates	University Grants Commission	1-7-2003 to 1-7-2006	Rs. 4,77,460=00	Completed
2	Organic-Inorganic Hybrid Polymeric Membranes for the Pervaporation Coupled Catalytic Reactions	Department of Science and	8-8-2007 to 8-8-2010	Rs. 16,62,000=00	Completed
3	Syntheseis and Application of Polymer Membranes as a Methanol Barrier in Fuel Cell	University Grants Commission	2-2-2010 to 2-2-2013	Rs. 6,66,300=00	completed

9. Membership/Other Charges: -

10. Honors /Rewards : -

## 11. List of Publications :

1	Ramesh S. Yalgudre and Gavisiddappa S. Gokavi*(2012) Mechanism of Oxidation of the Antituberculosis Drug Isoniazid by Bromate in Aqueous Hydrochloric Acid Medium Industrial & Engineering Chemistry Research, 51, 5135-5140
2	Veeresh T. Magalad, Seema S. Pattanashetti, Gavisiddappa S. Gokavi, Mallikarjuna N. Nadagouda,(2012) Tejraj M. Aminabhavi, Proton conducting properties of nanocomposite membranes of chitosan Chemical Engineering Journal, 189-190, 1- 4.
3	Veeresh T. Magalad, Gavisiddappa S. Gokavi, Mallikarjuna N. Nadagouda and Tejraj M. Aminabhavi (2011) Pervaporation separation of water-ethanol mixtures using organic-inorganic nanocomposite membranes. J. Physical Chemistry, C, 115,14731-14744
4	Nipane SV, Gurame VM, Gokavi GS(2011) Kinetics and mechanism of oxidation of pyridoxine by enneamolybdomanganate(IV) Inorganic Chemistry Communications14, 1102-1106
5	Mali MG, Magalad VT, Gokavi GS, Aminabhavi TM, Raju KSVN(2011) Pervaporation Separation of Isopropanol–Water Mixtures Using Mixed Matrix Blend Membranes of Poly(vinyl alcohol)/Poly(vinyl pyrrolidone) Loaded with Phosphomolybdic Acid J. Applied Polymer Science, 121, 711-719.
6	Zende SN, Kalantre VA, Gokavi GS (2010), Kinetics and mechanism of oxidation of hydroquinone by tetrabutylammonium tribromide ion in aqueous acetic acid Journal of Solution Chemistry,39, 1178-1186
7	Magalad VT, Supale AR, Maradur SP, Gokavi GS, Aminabhavi TM(2010),Preyssler type heteropolyacid-incorporated highly water-selective sodium alginate based inorganic-organic hybrid membranes for pervaporation dehydration of ethanol, Chemical Engineering Journal, 159(1-3), 75-83.
8	Magalad VT, Gokavi GS, Raju KSVN, Aminabhavi TM(2010), Mixed matrix blend membranes of poly(vinyl alcohol)-poly(vinyl pyrrolidone) loaded with phosphomolybdic acid used in pervaporation dehydration of ethanol, J. Membrane Science, 354, 150-161.
9	Zende SN, Pore SV, Gokavi GS (2010), Kinetics and mechanism of bromination of p-substituted acetophenones by tetrabutylammonium tribromide, Oxidation communications, 2, 250-258
10	Supale AR, Gokavi GS(2010), An environmentally benign three component one-pot synthesis of amidoalkyl naphthols using H4SiW12O40 as a recyclable catalyst, J. Chemical Sciences, 122(2),189-192.
11	Gurame VM, Supale AR, Gokavi GS(2010), Kinetic and mechanistic study of oxidation of L-methionine by Waugh type enneamolybdomanganate(IV) in Perchloric acid. Amino Acids, 38,789-795.
12	Supale AR, Gokavi GS(2010), Selective oxidation of sulfides to sulfones using H2O2 and Anderson type hexamolybdochromate(III) as catalyst. Phosphorus, Sulfur and Silicon and Related Elements,185(4), 725-731.
13	Berge JN, Shejwal RV, Gkavi GS(2010), Kinetics and mechanism of oxidation of ethane diol by 6- molybdocobaltate(III) ion. Oxidation Communications, 2,365-370
14	Maradur SP, Gokavi GS(2010), Selective oxidation of alcohols to aldehydes by hydrogen peroxide using hexamolybdochromate(III) as catalyst. S. P. Mardur and G. S. Gokavi

	J. Iranian Chem. Soc.7(2)441-446.
15	Supale AR, Gokavi GS( 2009), Waugh-type enneamolybdomanganate(IV) catalyzed synthesis of polyhydroquinoline through Hantzsch multi-component condensation. <i>The Open Catalysis Journal</i> , 2, 61-65.
16	Supale AR, Gokavi GS(2009), 12-Tungstocobaltate(II) catalyzed selective oxidation of sulfides to Sulfoxides using aqueous hydrogen peroxide under solvent free conditions. <i>Reaction Kinetics and Catalysis Letters</i> , 96(1), 83-89.
17	Kadam SD, Supale AR, Gokavi GS(2008), Kinetics and mechanism of oxidation of benzoic acid hydrazide by Bromate catalyzed by octamolybdomanganate(II) <i>Transition Metal Chemistry</i> , 33, 989-994.
18	Gurame VM, Gokavi GS(2008), Kinetics and Mechanism of oxidation of hypophosphite by Waugh-type enneamolybdomanganate(IV) in perchloric acid. <i>Polyhedron</i> , 27(7), 1905-1910.
19	Supale AR, Gokavi GS(2008), Chromium(III) catalyzed selective oxidation of sulfides to sulfoxides using 30% H <sub>2</sub> O <sub>2</sub> . <i>Catalysis Lett.</i> , 124,284-187.
20	Kadam SD, Supale AR, Gokavi GS( 2008), Kinetics and Mechanism of Oxidation of Benzoic acid hydrazide by Bromate catalyzed by Anderson type hexamolybdochromate(III) in aqueous acidic medium. <i>Z. Phys. Chem.</i> , 222, 635-646.
21	Supale AR, Gokavi GS(2008), Oxidation of thiols to disulfides using H <sub>2</sub> O <sub>2</sub> catalysed by Recyclable Chromic potassium sulphate at room temperature. <i>Reaction Kinetics and Catalysis Letters</i> , 93(1),141-148.
22	Zende SN, Kalantre VA, Gokavi GS(2008), Kinetics and Mechanism of oxidation of dimethyl and diphenyl sulfoxide by tetrabutylammonium tribromide. <i>J. Sulfur Chem.</i> , 29(2), 171-178.
23	Shewale SA, Phadkule AN, Gokavi GS(2008), Kinetics and Mechanism of Oxidation of Benzohydrazide by Bromate Catalyzed by Vanadium(IV) in Aqueous acidic Medium. <i>Int. J. Chem. Kinet.</i> ,40(3),151-159
24	Maradur SP, Gokavi GS(2008), Synthesis of $\beta$ -hydroxyl ketones in water: A green protocol under metal Free conditions. <i>Bull. Catal. Soc. India</i> , 7,141-145
25	Maradur SP, Gokavi GS , Selvam P(2007), Poly(Vinyl Alcohol) Supported 12-Tungstocobaltate(II) as a Novel Heterogeneous Catalyst for Oxidation of Benzyl Alcohols, <i>Bull. Catal. Soc. India</i> , 6, 42-49
26	Teli SB, Gokavi GS, Aminabhavi TM(2007), Novel sodium alginate-poly(N-isopropylacrylamide) semi interpenetrating polymer network membranes for the pervaporation separation of water + ethanol mixtures <i>Separation and Purification Technology</i> , 56, 150-157
27	Teli SB, Gokavi GS, Sairam, Aminabhavi TM(2007), Phosphomolybdic heteropolyacid loaded poly(vinyl alcohol) dense matrix membranes for pervaporation separation of water-isopropanol mixtures, <i>Colloids and Surfaces A : Physicochemical and Engineering Aspects</i> ,301,55-62
28	Kalantre VA, Maradur SP, Gokavi GS(2007), Kinetics and mechanism of oxidation of vanadium(IV) by Tetrabutylammonium tribromide, <i>Transition Metal Chemistry</i> , 32, 214-218
29	Teli SB, Gokavi GS, Sairam M, Aminabhavi TM( 2007), Highly Water Selective Silicotungstic Acid (H <sub>4</sub> SiW <sub>12</sub> O <sub>40</sub> ) Incorporated Novel Sodium Alginate Hybrid Composite Membranes for Pervaporation Dehydration of Acetic acid, <i>Separation Purification and Technology</i> , 54, 178-186
30	Maradur SP, Gokavi GS(2007), Heteropolyacid Catalyzed Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones, <i>Catalysis Communications</i> , 8, 279-294
31	Kalantre VA, Gokavi GS(2006), Kinetics and mechanism of oxidation of selenium(IV) By tetrabutylammoniumtribromide, <i>Oxidation Communications</i> , 29(2), 385

32	Rajmane DS, Kapashikar KV, Gokavi GS( 2006), Kinetics and mechanism of oxidation of aliphatic alcohols by oxone catalysed by Keggin type 12-tungstocobaltate(II) Indian J. Chem., 45A, 1626
33	Bhosale BD, Gokavi GS(2006), Kinetics and mechanism of oxidation of arsenous acid by Waugh-type enneamolybdomanganate(IV), Indian J. Chem., 45A, 398-401
34	Kalantre VA, Gokavi GS(2005), Oxidation of tellurium(IV) by tetrabutylammoniumtribromide, Indian J. Chem., 44A, 2048-2050
35	Bhosale BD, Gokavi GS(2004), Oxidation of arsenous acid by 12-tungstocobaltate(III) catalysed by ruthenium(III) in aqueous acid medium, Inorganic Reaction Mechanism,5(2),79-85
36	Maradur SP, Halligudi SB, Gokavi GS(2004), Oxidation of aliphatic and benzylic alcohols by Oxone catalysed by 12-tungstocobaltate(II), Catalysis Letters, 96(3-4), 165-167
37	Bhosale BD, Gokavi GS(2004), Outer-sphere electron transfer from platinum(II) to Keggin-type 12-tungstocobaltate(III) in presence and absence of chloride ions, Indian J. Chemistry,43A, 799-802
38	Hasure AM, Gokavi GS(2004), Chromium(VI), Chromium(V) and Chromium(IV) oxidation of 12-tungstocobaltate(II), Transition Metal Chemistry , 29, 231-237
39	Tardale AR, Phadkule AN, Patil JB, Gokavi GS(2004), Oxidative conversion of benzoic acid and o-chlorobenzoic acid hydrazides to corresponding acids by thallium(III) : A mechanistic study, Indian J. Chem., 43(A), 79-82
40	Hasure AM, Gokavi GS(2003), Ruthenium(III) catalysed oxidation of thallium(I) by 12-tungstocobaltate(III) in hydrochloric acid medium, Reaction Kinetics and Catalysis Letters, 80(1), 59-65
41	Bhosle BD, Gokavi GS(2003), <u>Kinetics and mechanism of oxidation of antimony(III) by Keggin-type 12-tungstocobaltate(III) in aqueous hydrochloric acid medium,</u> Int. J.Chem. Kinet., 35(1), 9-14
42	Virkar DD, Gokavi GS(2003), <u>Kinetics and mechanism of oxidation of phosphite by pyridinium chlorochromate,</u> Int. J. Chem. Sci. 1(3), 193-196
43	Virkar DD, Gokavi GS(2002), <u>Kinetics and mechanism of oxidation of hypophosphite by pyridinium chlorochromate,</u> Oxidation Communications , 25(1), 111-116
44	Babshet RM, Gokavi GS(2002), Kinetics and mechanism of oxidation of aurate(I) by peroxydisulphate in aqueous hydrochloric acid medium, Int. J. Chem. Kinet. , 34(10), 589-594
45	Hasure AM, Gokavi GS(2002), Kinetics and mechanism of oxidation of thallium(I) by 12-tungstocobaltate(III) in aqueous hydrochloric acid medium, Transition Metal Chemistry ,27(5),497-500
46	Babshet RM, Gokavi GS(2001), Kinetics of oxidation of antimony(III) by Tetrachloroaurate(III) in aqueous hydrochloric acid media, Inorganic Reaction Mechanisms, 3(1), 75-81
47	Gokavi GS(2001), <u>Kinetics and mechanism of pyridinium chlorochromate oxidation of thallium(I),</u> Indian J.Chem., 40A(3), 307-310
48	Handi AJ, Nimbalkar LV, Gokavi GS(2000), <u>Uncatalysed and chromium(III) catalysed cerium(IV) oxidation of n-butanol and ethylene glycol,</u> J. Saudi Chem. Soc. , 4(3), 301-309
49	Virkar DD, Gokavi GS(1999), Pyridinium chlorochromate oxidation of dimethyl

	sulfoxide in hydrochloric acid, Oxidation Communications, 22(4),532-537
50	Virkar DD, Gokavi GS(1999), Kinetics and mechanism of pyridinium chlorochromate oxidation of tellurium(IV), Indian J. Chem. 38A, 1268-1271
51	Virkar DD, Gokavi GS(1998), Pyridinium chlorochromate oxidation of arsenic(III) in hydrochloric acid, Polish J. Chemistry. 72,2267-2271
52	Nimbalkar LV, Chavan AM, Gokavi GS(1998), Kinetics and mechanism of cerium(IV) oxidation of primary and Secondary alcohols catalysed by chromium(III), J.Phys. Org. Chem..11, 697-700
53	Patil KJ, Pawar RB, Gokavi GS(1998), Studies of partial molar volumes of 18-crown-6 in water at 25oc, J. Molecular Liquids 75, 143-148
54	Gidd AN, Bhand MD, Gokavi GS(1995), Tetrachloroaurate(III) oxidation of thallium(I). Transition Metal Chemistry, 20, 367-368
55	Kanade AS, Gokavi GS, Salunkhe MM, Kinetics and mechanism of oxidation of benzoin by polymer supported N- bromosulphonamide, Eur. Polym J. , 29(4) 565-567
56	Ankamwar BG, Bhand MD, Gokavi GS(1993), Vanadium(V) oxidation of thallium(I) in hydrochloric acid, Transition Metal Chemistry. 18,361-363
57	Gokavi GS , Raju JR(1988) Chromium(III) catalysed cerium(IV) oxidation of allyl Alcohol, Oxidation Communications, 11(3-4),205-216
58	Gokavi GS , Raju JR(1988), Chromium(VI) oxidation of thallium(I) in aqueous acetic acid and effect of added vanadium(V) on the reaction, Indian J. Chem. ,27A, 494-497
59	Gokavi GS , Raju JR(1988) Oxidation of thallium(I) by hexacyanoferrate(III) in aqueous acetic acid, Int. J. Chem. Kinet.. 20.365-378
60	Chimatdar SA, Gokavi GS , Nandibewoor ST, Raju JR(1988)Chromium(III) analysis by kinetic method. Indian J. Chem.,27A, 176-178
61	Gokavi GS , Raju JR(1987) Chromium(VI) oxidation of thallium(I) . Polyhedron, 6, 1721-1726
62	Gokavi GS , Raju JR, Aminabhavi TM, Balundagi RH, Muddapur MV(1986) Viscosities and densities of binary liquid mixtures of dimethyl sulfoxide with chlorobenzene, pyridine and ethyl methyl ketone at 25,35,45 and 55 oc. J. Eng. Chem. Data, 31, 15-18

## 12. List of Conference/Workshop/Seminar attended:

1. International conference EUROMEMBRANE 2012 at London between 23<sup>rd</sup> to 27<sup>th</sup> September 2012.

